

## ABSTRACT OF THE DISCLOSURE

A battery cap and wireless transmitter-receiver circuit assembly for mobile telephone is constructed to include a battery cap covered on the battery chamber of a mobile telephone, a battery  
5 installed in the battery cap, a wireless transmitter-receiver circuit installed in the battery cap, the wireless transmitter-receiver circuit having a signal line adapted for connection to the voice signal input/output jack of the mobile telephone for enabling the mobile telephone to communicate with a remote wireless  
10 transmitter-receiver device; and an on/off switch installed in the battery cap and adapted for controlling the operation of the wireless transmitter-receiver circuit.